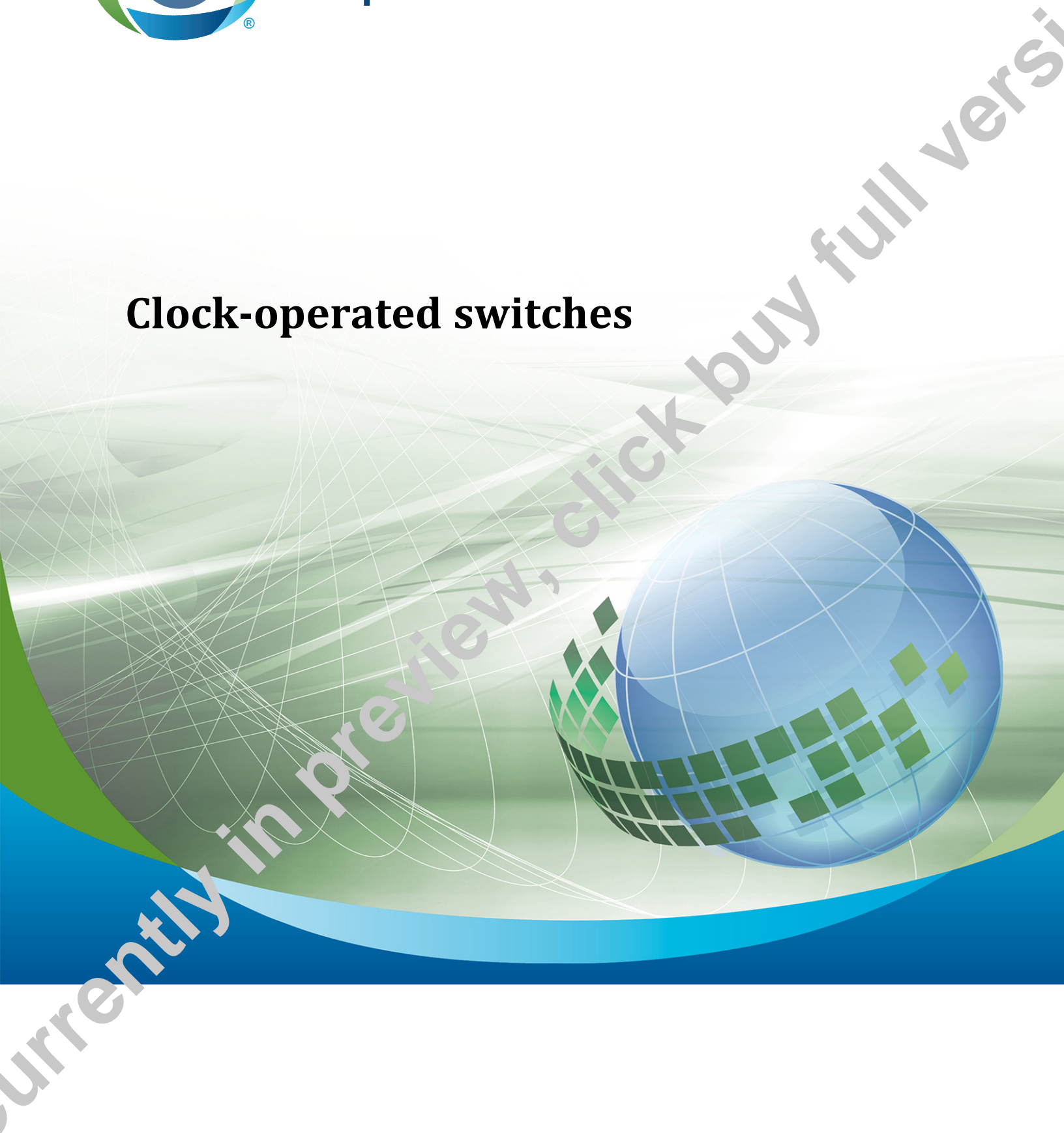




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CSA C22.2 No. 177:13
(reaffirmed 2018)

Clock-operated switches



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Clock-operated switches



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Contents

Technical Committee on Industrial Products	5
Subcommittee on Automatic Controls for Household Use	7
Preface	9
1 Scope	10
2 Reference publications	11
3 Definitions	12
4 Construction	12
4.1 General	12
4.1.1 Electrical components — Investigation	12
4.1.2 Electrical components — Conformance	12
4.2 Frame and enclosure	13
4.2.1 General	13
4.2.2 Nonmetallic enclosures	13
4.2.3 Cast metal enclosures	14
4.2.4 Sheet metal enclosures	14
4.2.5 Covers	15
4.2.6 Special purpose enclosures	15
4.3 Mounting	16
4.3.1 Permanently connected	16
4.3.2 Cord-connected	16
4.4 Plug-in devices	16
4.4.1 Requirement	16
4.4.2 Switch size and design	16
4.4.3 Grounding receptacle	16
4.4.4 Polarization	16
4.5 Assembly	16
4.5.1 Secure mounting	16
4.5.2 Turning prevention	17
4.5.3 Live parts	17
4.6 Operating mechanism	17
4.7 Corrosion protection	17
4.8 Insulating materials	17
4.8.1 Suitability	17
4.8.2 Flammability classification — Permanent installation	17
4.8.3 Flammability classification — Nonpermanent installation	17
4.8.4 Evaluation characteristics	18
4.8.5 Live part supports	18
4.8.6 Arc formation susceptability	18
4.8.7 Fire and shock hazard	18
4.9 Supply connections	18

4.9.1	Permanently connected devices	18
4.9.2	Connections for wiring systems	19
4.9.3	Terminal parts	19
4.10	Cord-connected devices	20
4.10.1	Cords and plugs	20
4.10.2	Polarization	20
4.10.3	Strain relief	21
4.10.4	Bushings	21
4.11	Grounding and bonding	21
4.11.1	Requirements	21
4.11.2	Circuitry	21
4.12	Receptacles	21
4.12.1	Requirements	21
4.12.2	Bonding and grounding	21
4.12.3	Overcurrent protection	22
4.12.4	Dimension requirements	22
4.12.5	Projection-free area	22
4.13	Bonding of internal parts	22
4.13.1	General	22
4.13.2	Construction and connection	23
4.14	Current-carrying parts	23
4.14.1	Ferrous material	23
4.14.2	Uninsulated live parts	23
4.15	Internal wiring	23
4.15.1	Insulation	23
4.15.2	Suitability	24
4.15.3	Protection	24
4.15.4	Abrasion-free wireways	24
4.15.5	Abrasion-preventing holes	24
4.15.6	Bare conductor support	24
4.15.7	Wiring connections	24
4.16	Coil windings	24
4.16.1	Absorption resistance	24
4.16.2	Film-coated wire requirements	24
4.17	Transformers	25
4.17.1	Requirements	25
4.17.2	Overcurrent protection	25
4.18	Spacings	25
4.18.1	Mounting	25
4.18.2	Standards	25
4.18.3	Measurement method	25
4.18.4	Enclosures	25
4.18.5	Low voltage circuit requirements	25
4.18.6	Horsepower-rated controllers	26
4.18.7	Insulating barrier or liner — Sole part	26
4.18.8	Insulating barrier or liner separation — Additional to air space	26
4.18.9	Spacing requirement compliance	26
4.18.10	Electronic circuit spacing	27
4.18.11	Fibre (or similar material) insulating barriers	27

- 4.18.12 Minimum spacings 27
- 4.18.13 Minimum spacings – Exceptions 27
- 4.19 Field-wiring space and wire bending space 27
- 4.20 Component switches 27

5 Marking 27

- 5.1 Requirements 27
- 5.2 Exception 28
- 5.3 Incandescent lamps 28
- 5.4 Cord type HPN 28
- 5.5 Marking requirements 28
- 5.6 Wiring diagram 28
- 5.7 Label 29
- 5.8 Use of aluminum wire 29
- 5.9 Use of copper wire 29
- 5.10 Use of copper or aluminum wire 29
- 5.11 Use of mixed copper and aluminum wire 29
- 5.12 Designation 29
- 5.13 Character size 30
- 5.14 Dating 30

6 Tests 30

- 6.1 General 30
 - 6.1.1 Switches — Types 30
 - 6.1.2 AC switch 30
 - 6.1.3 Single-pole, double-throw switch 30
 - 6.1.4 Test voltage 30
 - 6.1.5 Switch status 30
 - 6.1.6 Switch mounting 30
 - 6.1.7 Switch mounting — Alternative 31
 - 6.1.8 Connection 31
- 6.2 Rating 31
 - 6.2.1 Types 31
 - 6.2.2 Tungsten-filament-lamp 31
 - 6.2.3 AC switch 31
 - 6.2.4 Permanently connected switches 31
 - 6.2.5 Electronic ballast, CFLs, and LED driver rated switch 32
- 6.3 Leakage current 32
 - 6.3.1 Testing 32
 - 6.3.2 Accessible conductive surfaces 32
 - 6.3.3 Nonmetallic conductive surfaces 33
 - 6.3.4 Measurement circuit 33
 - 6.3.5 Testing condition 33
- 6.4 Overload 33
 - 6.4.1 Testing 33
 - 6.4.2 Operation cycle 33
 - 6.4.3 Pilot-duty rating load 34
 - 6.4.4 Current to horsepower conversion 34
 - 6.4.5 AC motor switches 34

6.4.6	Multi-ampere-rated switches	34
6.4.7	Multi-horsepower-rated switches	34
6.4.8	Current-interrupting tests	34
6.4.9	Two-pole or four-pole switches	34
6.4.10	Other switch types	35
6.4.11	Fuse	35
6.4.12	Supply terminal	35
6.5	Endurance	35
6.5.1	Conditions	35
6.5.2	Method of operation	35
6.5.3	Test	35
6.5.4	Pilot duty switches	35
6.5.5	Rate of operation	36
6.6	Maximum temperatures	36
6.6.1	Temperature limit	36
6.6.2	Quick make-and-break mechanism	36
6.6.3	Volt ampere rated switches	36
6.6.4	Test room ambient temperature	36
6.6.5	Conditions	36
6.6.6	Obtaining temperature readings	36
6.6.7	Test current used	37
6.6.8	Test frequency	37
6.7	Tungsten-filament-lamp load	37
6.8	Special-purpose enclosure tests	37
6.9	Dielectric strength	38
6.9.1	Tests	38
6.9.2	Device disconnection	38
6.9.3	Dielectric testing	38
6.9.4	Test transformer	38
6.9.5	Electronic circuit components	38
6.9.6	Dielectric-strength	38
6.10	Impact	39
6.10.1	Test	39
6.10.2	Live part exposure	39
6.11	Printed wiring boards	39
6.12	Moisture-absorption test	39
6.12.1	Test method	39
6.12.2	Compliance criteria	39
6.13	Covers	39
6.13.1	Requirements	39
6.13.2	Release characteristics	39
6.13.3	Cover removal	40
6.13.4	Impact test	40
6.14	Knockouts	40
6.15	Strain relief	40
6.16	Bonding resistance	40
6.17	Insulation resistance	40

Annex A (informative) — Marking translations	53
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Preface

This is the third edition of C22.2 No. 177, *Clock-operated switches*. It supersedes the previous editions published in 1992 and 1981. It is one of a series of Standards issued by CSA Group under Part II of the *Canadian Electrical Code*.

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was prepared by the Subcommittee on Automatic Controls for Household Use, under the jurisdiction of Technical Committee on Industrial Products and the Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the Technical Committee.

Notes:

- 1) *Use of the singular does not exclude the plural (and vice versa) when the sense allows.*
- 2) *Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.*
- 3) *This Standard was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this Standard.*
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 - a) *Standard designation (number);*
 - b) *relevant clause, table, and/or figure number;*
 - c) *wording of the proposed change; and*
 - d) *rationale for the change.*

CSA C22.2 No. 177:13

Clock-operated switches

1 Scope

1.1

This Standard applies to clock-operated switches, rated 600 V or less, designed to be used in ordinary locations to close and open circuits to a load at predetermined intervals, and intended to be employed in accordance with the Rules of the *Canadian Electrical Code, Part I*. The clock-operated switches discussed in this Standard may be

- a) completely enclosed, plug-in, or cord-connected;
- b) incomplete in their enclosure or in other constructional features; or
- c) restricted in performance capabilities for use in other equipment.

Note: *The word "switch", when used without further qualification in subsequent Clauses of this Standard, denotes a clock-operated switch.*

1.2

This Standard applies to clock-operated switches in which the switching contacts are actuated by a clock-work, a gear-train, hand, electrically-wound spring motors, electric clock-type motors, electronic circuits, or equivalent arrangements. In addition to closing and/or opening the switching contacts, the clock-operated switches may also indicate the time of day or time interval. This Standard also applies to TV-rated clock-operated switches.

1.4

General requirements applicable to this Standard are given in CAN/CSA-C22.2 No. 0.

1.5

In this Standard, "shall" is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; "should" is used to express a recommendation or that which is advised but not required; and "may" is used to express an option or that which is permissible within the limits of the Standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

Annexes are designated normative (mandatory) or informative (non-mandatory) to define their application.